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## ABSTRACT

### INK JET CARTRIDGE STRUCTURE

The invention described in the specification relates to an improved ink jet printer cartridge structure which includes a substrate carrier or nose piece upon 5 which semiconductor devices for ink jet printheads are mounted. The substrate carrier has a top surface containing one or more substrate locator wells each well having well walls, a well base and at least one ink feed slot in each well base and side walls attached to the top surface along the perimeter thereof. One or more of the side walls contain fins for heat removal from the substrate carrier and at least 10 two alignment devices attached adjacent at least one of the side walls for precisely aligning the substrate carrier in a printer carriage. Among the advantages of the substrate carrier is that it provides a suitable means for substrate alignment for multiple substrates, a means for cooling multiple substrates, a means for fixedly or removably attaching the carrier to a ink reservoir body and a means for 15 accurately aligning the carrier and reservoir body in a carriage of a printer.

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